We Claim:

1	1. A method of scaling digital video information, said method
2	comprising:
3	accepting a scaling relaxation value, said scaling relaxation value specifying an
4	amount to relax a scaling performed to prevent buffer underflow or overflow;
5	and
6	adjusting a scaling value with said scaling relaxation value.
1	2. The method of scaling digital video information as claimed in
2	claim 1, said method further comprising:
3	calculating said scaling value, said scaling value dependent on a current buffer
4	usage.
1	3. The method of scaling digital video information as claimed in
2	claim 1 wherein said adjusting a scaling with said scaling relaxation value comprises
3	adding said scaling relaxation value to said scaling value and subtracting the product of
4	said scaling value and said scaling relaxation value.
1	4. The method of scaling digital video information as claimed in
2	claim 2 wherein said adjusting a scaling of a bit budget with said scaling relaxation value

- 3 comprises adding said scaling relaxation value to said scaling value and subtracting the
- 4 product of said scaling value and said scaling relaxation value.
- 1 5. A method of tracking digital video information complexity, said 2 method comprising: 3 determining a complexity measure for a current digital video picture; and combining said complexity measure for said current digital video picture to a 4 5 running average complexity measure for a series of digital video pictures in a 6 manner that prevents said current digital video picture from significant 7 changing said running average complexity measure for a series of digital video 8 pictures.

- 1 6. The method of tracking digital video information complexity as
 2 claimed in claim 5 wherein said running average complexity is not allowed to change by
 3 more than a predetermined percentage.
- The method of tracking digital video information complexity as claimed in claim 5 wherein said running average complexity is processed by a non-linear smoothing filter.

1	8. A computer-readable medium comprising a set of computer
2	instructions for implementing a method of scaling digital video information, said set of
3	computer instructions performing:
4	accepting a scaling relaxation value, said scaling relaxation value specifying an
5	amount to relax a scaling performed to prevent buffer underflow or overflow;
6	and
7	adjusting a scaling value with said scaling relaxation value.

- 9. The computer-readable medium as claimed in claim 8 wherein said set of computer instructions further perform:

 calculating said scaling value, said scaling value dependent on a current buffer
- 4 usage.
- 1 10. The computer-readable medium as claimed in claim 8 wherein said
 2 adjusting a scaling with said scaling relaxation value comprises adding said scaling
 3 relaxation value to said scaling value and subtracting the product of said scaling value
 4 and said scaling relaxation value.
- 1 1. The computer-readable medium as claimed in claim 9 wherein said 2 adjusting a scaling of a bit budget with said scaling relaxation value comprises adding 3 said scaling relaxation value to said scaling value and subtracting the product of said 4 scaling value and said scaling relaxation value.

DHJ --28-- APLE.P0036

1	12. A computer-readable medium comprising a set of computer
2	instructions for tracking digital video information complexity, said set of computer
3	instructions performing:
4	determining a complexity measure for a current digital video picture; and
5	combining said complexity measure for said current digital video picture to a
6	running average complexity measure for a series of digital video pictures in a
7	manner that prevents said current digital video picture from significant
8	changing said running average complexity measure for a series of digital video
9	pictures .

- 1 13. The computer-readable medium as claimed in claim 12 wherein said running average complexity is not allowed to change by more than a predetermined percentage.
- 1 14. The computer-readable medium as claimed in claim 12 wherein 2 said running average complexity is processed by a non-linear smoothing filter.